

HPM-SRSDE Highlights



2 x LGA4677 Sockets support **DUAL**
4th Gen Intel® Xeon® Scalable
Processors up to 270W TDP



3x Slim SAS 8i (SFF-8654) from CPU 1

5x SATA III Supports up to 6.0 Gb/s
-1x Mini-SAS HD 4i (from PCH for 4xSATA
or 1x 4 NVMe interface)
-1x 7pin SATA connector

12x DDR5 4800/4400 MHz RDIMM up to **3TB**
→ **Bandwidth increased 50% compared to
DDR4 3200MT/s.**



1x M.2 M-Key PCIe 5.0 x4 NVMe SSD
2242/2260/2280/22110 form factor
→ **More than 10,000MB/s sequential
read/write performance.**

VGA and COM
Port

6 x external USB 3.2 Gen1 ports

1x Dedicated IPMI port
1x 1GbE Ethernet port shared with IPMI port
1x 2.5GbE Ethernet port
2x 10GbE Ethernet ports(Optional)
→ **Enhance data transmission speed between computing nodes.**



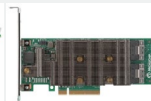
Intel Flex
Series Data
Center GPU



Nvidia Data
Center GPU



Intel 100GbE
Ethernet
Adapter



Microsemi
RAID
Adapters



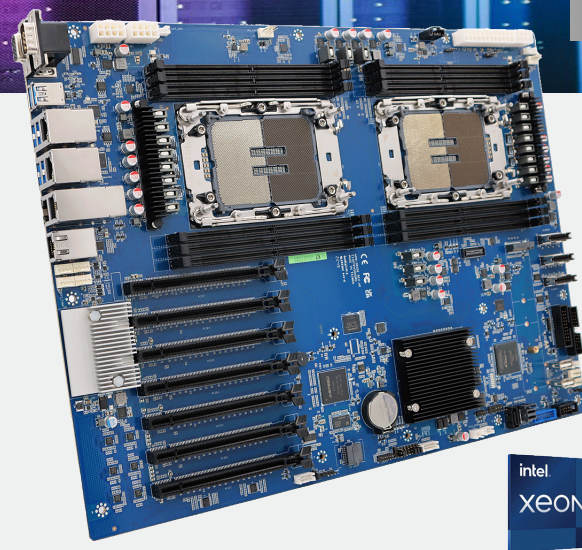
Samsung
Enterprise
SSD

7x PCIe Gen5 x16 slot
→ **Fastest PCIe interface to 32GT/s data transfer rate and
64GB/s throughput. Faster storage speeds (video and game
loading) and faster graphics (video games and rendering).**

HPM-SRSDE

A High Performance Dual Socket Server Motherboard supports 4th Gen Intel® Xeon® Scalable Processor.

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Selling Points

- Future-Proof Your High-Performance Computing Investment with **Extended Lifecycles**. **Reducing Total Cost of Ownership (TCO)** and ensuring your **systems stay relevant** well into the future.
- **High Performance:** Dual CPU Sockets with Intel® C741 chipset and support for Dual Intel® 4th Gen® Xeon Scalable Processors with up to 270W TDP. This setup provides extreme computing power, catering to the most demanding server workloads.
- **Memory and Bandwidth:** 12 DIMM slots supporting up to **3TB DDR5** memory running at impressive speeds of 4800/4400 MHz, delivering both high bandwidth and capacity.
- **Impressive 7 PCIe 5.0 x16** expansion slots, support high bandwidth PCIe x16 acceleration cards. It can support up to four double wide PCIe cards.
- **Expansive Storage Options:** The inclusion of M.2 M-Key PCIe 5.0 x4 NVMe SSD offers lightning-quick storage capabilities, enhancing overall system performance.
 - **SATA storage expansion and RAID data backup protection:**
 - ✓ 3 x Slim SAS 8i (SFF-8654) connectors support U.2
 - ✓ 5 x SATA III (SATA 1-4 support RAID 0, 1, 5, 10) 1 x Mini-SAS HD 4i
- **Scalable Networking Options:** Extensive networking capabilities including 1 GbE, 2.5 GbE, and **optional dual 10 GbE ports** powered by Intel Ethernet controllers (Intel® X550-AT2, Intel® I226-LM), ensuring versatile connectivity options.
- **Remote System Management:** The inclusion of IPMI 2.0 enables remote system management, real-time diagnostics, maintenance scheduling, and system upgrading, ensuring efficient and effective system control.
- Multiple **USB Gen 3.2** high-speed interfaces, **VGA & COM** port interface supports legacy devices

SKU	Description
HPM-SRSDEL – 3 x RJ45	<ul style="list-style-type: none"> • MGMT port for dedicated IPMI access only. • LAN1 port for 1GbE shared with IPMI access. • LAN2 port for 2.5GbE
HPM-SRSDEA – 5 x RJ45	All above plus LAN3 and 4 ports for 10GbE

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Target Applications



The HPM-SRSDE is ideal diverse range of demanding applications across multiple markets. Here's are a few examples:

- **High Computing Capabilities:** Handle multiple real-time complex tasks concurrently, delivering super high computing capabilities.
- **Expansion:** Accommodates 7 PCIe Gen 5 PCIe x16 expansion cards or 4 double-wide GPU cards, enabling extensive scalability.
- **Quality and Performance:** Server-grade performance with extended product lifecycles, backed by local R&D engineering and comprehensive technical support.
- **AI and Machine Learning:** Equipped with sophisticated capabilities for AI inferencing and machine learning tasks, meeting the demands of advanced computational processes.
- **Remote Monitoring and Management:** Onboard IPMI support for 24/7 remote monitoring and management, including hardware monitoring, power control, firmware updates, and asset tracking.



Smart Manufacturing

- **Automated Optical Inspection (AOI)**
Enhances production efficiency, reduces defects, and optimizes the production process.



Smart City

Airport Security Scanning

- Handle heavy workloads of image processing, improving efficiency without compromising aviation security standards.



Healthcare

Image Guided Therapy

- Facilitates real-time and precise image recognition for invasive procedures, ensuring reliability for delicate surgeries.



Life Science

Genetic engineering

- Enables efficient sequencing of an entire human genome within 24 hours, aiding in disease prevention and preparation with secure solutions.